

Clean Copy of Claims:

1. An auto-writing system on monitor/screen, controlled by microprocessor characterized in that it provides:

- the replacement of the writing alphanumeric keyboard, with an auto-writing device including a movement sensor according to the X,Y coordinates with respect to a surface, associated/able to said microprocessor that controls said monitor/screen, in which:

- with vertical or predominantly vertical movements according to the "Y" ordinates, allow changing in scrolling-way the alphanumeric characters of interest, so that, when the movement stops or changes direction, the desired alphanumeric character remains on the screen;

- with horizontal or predominantly horizontal movement, according to the abscissas "X" axis, in the sense of advancing writing, at least the addition of said alphanumeric characters is operated.

2. An auto-writing system according to claim 1, characterized in that in the prevailing movement according to the X-abscissas axis:

- in the advancing direction alphanumeric characters and punctuation is added and  
- in the opposite direction, that is backwards, cancellation is made.

3. An auto-writing system according to claim 1, characterized in that it comprises automatic conversion means of the numerical value of "numtochar" ordinate into opportune character/punctuation, in relation to the already written prior characters/punctuation.

4. An auto-writing system according to claim 1, characterized in that it provides at least one integrated dictionary that as one writes the characters of a word, compares what written with the prefixes of the words existing in said dictionary and, when the word or words identified suggest sequentially the limited options allowed by said dictionary.

5. An auto-writing system according to claim 1, characterized in that said movement sensor small panel is a "keypad" pseudo-writer means, that is a small panel sensor of the movement of the rested finger and made scroll over it in a rectilinear or almost rectilinear manner by segments.

6. An auto-writing system according to claim 5, characterized in that said "keypad" pseudo-writer means movement sensor small panel, is structured and sized for being housed in the palm of the hand and operated by the same hand-thumb movement.

7. An auto-writing system according to claim 1, characterized in that said movement sensor is essentially a mouse.

8. An auto-writing system according to claim 1, characterized in that the movement parameters substantially fall within the scheme of a x-y coordinates diagram where values liòàits of side excursion -1, +1 +2, +3 can vary according to wanted tolerances.

9. An auto-writing system according to claim 1, characterized in that it works with to-and-fro movements for more or less continuous rectilinear segments upwards and downwards, forwards and backwards substantially forming a chart of the type with upwards and downwards oscillations whose direction variations correspond to determined characters.

10. A cellular-phone structured with the system as in claim 1 equipped with a thumb movements sensor small panel instead of a writing pad.

11. A cellular-phone according to claim 10, characterized in having at least one writing option control means on the side on the thumb's opposite side, to be operated by using the fore finger or the middle finger.

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20. An auto-writing system associated to microprocessor and to at least one movement sensor means, at least for sending control signals to a monitor/screen showing a moving pointer, and detection means of said moving pointer respect to the orthogonal co-ordinates X,Y of said monitor/screen, on which to write, according to claim 19, wherein:

- said movement sensor means has the size to be contained in one hand's palm;
- and said system includes at least:
  - means to detect the relative sliding movement on sensor key-pad means into a virtual pointer in displacement on said monitor/screen in the writing area, in order that:
    - with prevailing movement according to the horizontal abscissas "X";
    - characters are added if the displacement lies in the direction of the addition to the writing and
    - characters are inversely cancelled;
    - with prevailing movement according to the vertical ordinates "Y" the characters are made vary in an increasing manner if downwards and in a decreasing manner if upwards;
  - option means to write alternatively at least:
    - letters: capital or small ones, vowels and consonants, and punctuation / numbers;
    - control means to activate at least two successive dots of the sliding movement in association to the relative position on said co-ordinates "X1,Y1; X2,Y2" to decide if to vary the written character/punctuation or to add one or to cancel it;

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21. A system according to claim 20, characterized in that in relation to what is written at least concerning the word in writing progress and at least the former word, the automatic completion of the word in writing progress or at least the limitation of the subsequent possible options is carried out depending on both.

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23. System according to claim 20, characterized in that said option means are direction dynamic variations of said movement sensor.

24. System according to claim 20, characterized in that said option means provide the activation of means for the reduction of the variables to write in sub-groups.

25. A system according to claim 24, characterized in that said sub-groups are at least vowels and consonants.

26. A system according to claim 20, characterized in that said option means include the activation or not of the cancellation.

27. A system according to claim 20, characterized in that said option means include the activation or not of the starting of word adding with contemporaneously two characters, alternated with the one character continuous addition.

28. A system according to claim 20, characterized in that the word beginning is allowed with alternative choice between variables of two characters selected in a sensor panel position, to then being inserted in the variability process driven by the processor.

29. A system according to claim 20, characterized in that the system is provided to propose the beginning of the most plausible letters and the completion only of the speech/phonetic-most-plausible words in function of the words already written stored in respective dictionary divided by prefixes of at least two letters.

30. A system according to claim 29, characterized in that it provides a visualized vertical band DX in correspondence with the letter to modify for visual controlling of the scrolling action.

31. A system according to claim 30, characterized in that it provides the division into different groups of the characters to scroll by mouse-up and mouse-down option.

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